

MR2685-145  
Serial Number: 10/648,217  
Reply to Office Action dated 19 January 2007

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CENTRAL FAX CENTER

**AMENDMENTS TO THE CLAIMS**

APR 18 2007

This listing of claims will replace all prior versions, and listings, of claims in the subject Patent Application:

**Listing of Claims:**

Claim 1. (Currently Amended) A biodegradable and bioactive glass-ceramic fabricated from a composition consisting of: 41.40~45.75% by weight of calcium oxide (CaO), 35.0~47.62% by weight of silica (SiO<sub>2</sub>), 0.50~14.58% by weight of boron oxide (B<sub>2</sub>O<sub>3</sub>), 0.46~4.14% by weight of magnesium oxide (MgO), 0.05~0.45% by weight of calcium fluoride (CaF<sub>2</sub>) and 1.62~14.58% by weight of phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>).

Claim 2. (Canceled)

Claim 3. (Original) A biodegradable and bioactive glass-ceramic fabricated by mixing a first glass consisting of 41.03~45.86% by weight of calcium oxide (CaO), 43.97~49.14% by weight of silica (SiO<sub>2</sub>) and 5~15% by weight of boron oxide (B<sub>2</sub>O<sub>3</sub>), and a second glass consisting of 44.7 parts by weight of magnesium oxide (MgO), 34.0 parts by weight of silica (SiO<sub>2</sub>), 16.2 parts by weight of phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) and 0.5 parts by weight of

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calcium fluoride ( $\text{CaF}_2$ ) wherein the mixing ratio of the first glass to the second glass is between 90:10 and 10:90 on a weight basis.

**Claims 4-5 (Canceled)**